

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P10420PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 01/ 45131	International filing date (day/month/year) 27/11/2001	(Earliest) Priority Date (day/month/year) 22/12/2000
Applicant INTEL CORPORATION		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 03 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

**NO DOCKETING REQUIRED
AD**

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1
☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/45131

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04N7/64 H04L1/18 H04L1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 983 382 A (PAULS RICHARD JOSEPH) 9 November 1999 (1999-11-09)	1,8,11, 18,21,27
Y	column 2, line 23 -column 3, line 45	2-4,6,7, 10, 12-14, 16,17, 20,22, 23,25,26
A	column 4, line 29 -column 7, line 2 ---	
Y	WO 00 21236 A (ERICSSON TELEFON AB L M) 13 April 2000 (2000-04-13) page 3, line 4 -page 4, line 2 page 9, line 9 -page 11, line 25 ---	1,11 10,20
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

8 July 2002

Date of mailing of the international search report

16/07/2002

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/45131

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 924 890 A (WHITAKER CORP) 23 June 1999 (1999-06-23)	1,11,21
Y	column 1, line 1 -column 2, line 22	2-4,6, 12-14, 16,22, 23,25
A	<p>---</p> <p>BYERS J W ET AL: "Accessing multiple mirror sites in parallel: using Tornado codes to speed up downloads" INFOCOM '99. EIGHTEENTH ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES. PROCEEDINGS. IEEE NEW YORK, NY, USA 21-25 MARCH 1999, PISCATAWAY, NJ, USA, IEEE, US, 21 March 1999 (1999-03-21), pages 275-283, XP010323769 ISBN: 0-7803-5417-6</p>	1,11,21
Y	<p>page 275, left-hand column -page 277, left-hand column, line 2</p> <p>page 279, left-hand column</p> <p>---</p>	7,17,26
A	<p>SHU LIN ET AL: "AUTOMATIC-REPEAT-REQUEST ERROR-CONTROL SCHEMES" IEEE COMMUNICATIONS MAGAZINE, IEEE SERVICE CENTER. PISCATAWAY, N.J, US, vol. 22, no. 12, 1 December 1984 (1984-12-01), pages 5-17, XP000674086 ISSN: 0163-6804</p> <p>page 1 -page 3, right-hand column</p> <p>page 11, right-hand column -page 13, left-hand column</p> <p>-----</p>	1,11,21

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/45131

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5983382	A	09-11-1999	CA 2222253 A1	30-06-1998
			GB 2320869 A ,B	01-07-1998
			JP 10210016 A	07-08-1998

WO 0021236	A	13-04-2000	US 2001056560 A1	27-12-2001
			AU 1305500 A	26-04-2000
			CN 1336049 T	13-02-2002
			EP 1119936 A1	01-08-2001
			WO 0021236 A1	13-04-2000

EP 0924890	A	23-06-1999	US 6009553 A	28-12-1999
			EP 0924890 A2	23-06-1999
			JP 11252054 A	17-09-1999
